



INTERCOLLEGIATE BROADCASTING SYSTEM

MEMORANDUM

TO: Grace Marshall - Smith

Date: 28 October 1947

FROM: Dave Linton - New York

Dear Grace,

Thanks for your letter of October 24. I think I may be able to save some time before sending it along to Dave Borst. His address, by the way, is 706 Sanders Ave, Schenectady 2 N.Y.

The signal will ultimately be coupled into the 110 volt electric wiring. The connection will not injure or interfere with these wires in any way.

If your transmission lines are run in the same conduits as the 2300 v college lines, they will not injure them in any way, but the Underwriters require that in such a case you must use wire with insulation sufficient to withstand 2300 volts. This is not difficult.

I believe that all low-voltage wiring not used to supply power is classified by the Underwriters as signal wiring and that radio transmission lines would, therefore, come under this classification.

It is not necessary to disturb the transformers at all if the connection is made in the approved way - at the distribution box (where the fuses are located).

Excessive heat in heating tunnels may cause the insulation on wires to deteriorate. This condition does not involve any danger, but the wires have to be replaced. Consequently, you should use wire with an insulation which will withstand the temperature when the installation is first made.

It is not wise to rely upon radiation from one group of houses to another. Wires should be run to each group of houses served by one transformer. These wires need not come from the transmitter - only from the nearest point where they can be connected to lines which do go to the transmitter. In other words, more than one group of buildings may be fed by a single line.

It is impossible to give an estimate of the transmitter power required until we have a map of the campus (perhaps Dave Borst has it) and can consider the extent of the transmission system. I would judge that the power would not exceed 20 watts under any conditions.



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The network lines are leased in one piece terminating in your control room, and you do not have to rent any line for this purpose. The line can be installed at any place which is convenient for you. If you wish to use part of the network circuits for exchange of programs with other colleges in your area (such as Amherst and U. of Mass.) this can be arranged and the additional expense shared by the stations involved.

A copy of the technical data book will be sent you soon, but you should remember that a good deal of the engineering must be done individually for each campus and Dave Borst need the map of your campus (if he does not already have it) in order to advise you.

Best regards,

Dave Linton

